

Product datasheet for **MC220518**

Trdn (NM_029726) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trdn (NM_029726) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trdn
Synonyms:	2310045H21Rik; EG432451; TDN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220518 representing NM_029726
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTGAGATCACTGCTGAAGGAAATGCATCGACAACCAACGGTGATAGACAACAAAAATGGATGTA
 TTCCTAAATCCCCTGAAAGGTGCTGAAGAGGTCTGTCACCGAAGACATTGTGACAACATTCAGCTCCC
 TGCAGCCTGGCTTCTTGTCTCATCGCTCTGATTATCACATGGTCAGCTGTTGCTATCGTGATGTTTGATTTA
 GTGGATTATAAAACTTTTCAGCAAGCTCCATTGCCAAGATTGGCTCAGATCCTCTAAAAGTGAATG
 ATGCTGTGGAGGAGACAACAGACTGGATCTATGGCTTCTTCTTTGCTATCTGACATCATCTCATCTGA
 AGGTGACGAAGATGATGAGGATGCAGATGAAGACATTGATAAAGGAGAAAATAGAAGAACCCTCCCTAAAA
 AGAAAAGAAAATACACCAAGAAAAGGCTGAAAAAGAGGAGAAAACCTGAGAAGAAAATACAACTAAAGCTT
 CACACAGAGAAAAGGAGAAAAGAAAAGAAAATAAAAGGAGAAAACCTGAGAAGACAGCAACTCACAA
 AGAGAACTTGAGAAAAAGAAAGACCAGAGACGAAGATGATGGCAAAAGAGGACAAGAAAATTAAGACT
 AAGGAAAAGACTGAAGAAAAGGCTAAGAAGGAAAATGAAAGTTGGAAAACAGGAGAAAAGTGAACCAACAG
 CTGCAAAAAGCCAAAGAACTCCGAAAACACCACCAAAAGGCCAGAAAAGAGGATGACAAAAGAGATGCCAGC
 TGTGCATGAGCAGAAAAGATCAGTATGCATTCTGTCTGATATATGATTGACATGTTTGTCCATGGGGATTTA
 AAACCAGGACAAAAGCCAGTTATGCCACCACCATCATTGACACCTTCAAACCTGCTTTGTCAACAACGG
 CCCTTGAAGAAAAAGAAAAGAGAAGAAAGAAAATGGAGAAGAAAGATACTTCTGATACAAAAAGAA
 AGAAAAAGAAAGTCAAAAAGAAAAGTGAAGAACTACCATTTGATGGGAAAGGCAAGAACCAGGCAAACT
 CCTGAAACCAACAATGACCGCCAACTCACACACAAGCTGCAGCTAGAAAGGATGAGAAGAAAAGAA
 AATCAAAAGAAAATGAGAAAACCTACAGAAGAACAACCAAGGGAAAAAACAGGAAAAGAAAAGAAAGCA
 CATAGAACCAGCAAAGACACCAAAAAAGGAACATCCAGTCCAAGTGAAAAACCTCAAAAAGCAAAGCT
 GAACAAGCCAAGGAAGAGATTGCTGCTCAACAAAAAGGCCCTGCATGAAAAGAAAAGAGAAGAAAG
 CCAAGACAGTCGAGCAAGAAGTAAAAAGAAAATCTGGGAAGAGTTCTTCAGATTTGAAAGATAAAGA
 AGTAAAAAGAAAAGTCTGGGAAGAGTTCTTCAGATTTGAAAGATAAAGAGCCACAACAAAAACGAA
 GAGAAGTCAAAGCCACAAGTAAAAAGGAAGCAAACTAGCATCATCTGACAAAGGCCAAACACGCAAAAC
 AGAACATCACCAGACCAGAGCAAGTTATTCCTCATGTTAAACCAGAAAAGCTGAACACCAAGAAAAGG
 CCACCCATCTATAAAAAAGATAAGCCTAAACCATCTTCAAAGGGAGCACCAGAAGTTCAGACTCAGGG
 AAGAAGAAGATTGAAAAATCTGAAAAGGAAAGTAAAGTCCAACAAGAGAAGAAAATCTTCAGGTGTACA
 ATGTGACTAAAGCAGAAAACCTGGAAAATACCAAAAAGATTCCAAGAAGCACCAGCTTCAAAGAAAGA
 TAAAGAAGATTCAAAGAAGCACCAACTTCAAAGAAAGATAAAGAAGACTCAAAGATGTCCACATTCA
 AAGAAAGATAAAGAAGTAACTGATGATGATCTTCAACAAAGAAGCAAACACGTCCCATCAGCTTCTTCC
 AATGTGTGTACTTGAATGGGTACAATGGCTATGGGTTTCAGTTTCTGTCACTCTGTCCAACAACCTGG
 AGAGAACCCTGGCAAAACAACTCTCCAGGACAGAAGCAACAAGAACA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_029726
- Insert Size:** 2082 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_029726.2](#), [NP_084002.2](#)

RefSeq Size: 4514 bp

RefSeq ORF: 2082 bp

Locus ID: 76757

UniProt ID: [E9Q9K5](#)

Cytogenetics: 10 A4

Gene Summary: Contributes to the regulation of luminal Ca²⁺ release via the sarcoplasmic reticulum calcium release channels RYR1 and RYR2, a key step in triggering skeletal and heart muscle contraction. Required for normal organization of the triad junction, where T-tubules and the sarcoplasmic reticulum terminal cisternae are in close contact. Required for normal skeletal muscle strength (PubMed:19843516). Plays a role in excitation-contraction coupling in the heart and in regulating the rate of heart beats.[UniProtKB/Swiss-Prot Function]